

Title (en)

OPTICAL ISOLATOR, DRIVER LASER ARRANGEMENT AND EUV RADIATION PRODUCTION APPARATUS THEREWITH

Title (de)

OPTISCHER ISOLATOR, TREIBERLASERANORDNUNG UND EUV-STRAHLUNGSERZEUGUNGSVORRICHTUNG DAMIT

Title (fr)

ISOLATEUR OPTIQUE, DISPOSITIF DE LASER D'ATTAQUE ET DISPOSITIF DE GÉNÉRATION DE RAYONNEMENT UVE COMPRENANT LEDIT ISOLATEUR

Publication

**EP 3391479 A1 20181024 (DE)**

Application

**EP 15813338 A 20151215**

Priority

EP 2015079799 W 20151215

Abstract (en)

[origin: WO2017101982A1] The invention relates to an optical isolator comprising: a stop (1) which has an aperture (3) for passing laser radiation (5), said laser radiation passing through the aperture (3) in a first direction (R1), wherein the stop (1) serves to influence a plasma ignition threshold (IP1, IP2) for igniting a plasma in order to suppress the passage of laser radiation propagating in a second direction, opposite to the first, through the aperture (3). For laser radiation which impinges on the second side (2b) of the stop (1) in a vicinity (6b) of the aperture (3), the stop (1) has a lower plasma ignition threshold (IP2 < IP1) than for laser radiation (5) which impinges on the first side (2a) of the stop (1) in a vicinity (6a) of the aperture (3). The invention also relates to a driver laser arrangement and an EUV radiation production apparatus comprising at least one of such optical isolator.

IPC 8 full level

**H01S 3/00** (2006.01); **G02B 27/09** (2006.01); **H01S 3/223** (2006.01); **H01S 3/23** (2006.01); **H05G 2/00** (2006.01)

CPC (source: EP)

**G02B 27/0988** (2013.01); **H01S 3/0064** (2013.01); **H05G 2/008** (2013.01); **H01S 3/005** (2013.01); **H01S 3/2232** (2013.01); **H01S 3/2316** (2013.01)

Citation (search report)

See references of WO 2017101982A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**WO 2017101982 A1 20170622**; EP 3391479 A1 20181024; EP 3391479 B1 20220907

DOCDB simple family (application)

**EP 2015079799 W 20151215**; EP 15813338 A 20151215